Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Genetics Unit Exam**

**Directions: Please answer in complete sentences. Please answer all parts of the question for full credit.**

1. **What is DNA**

**What does DNA stand for**

**Why is DNA important**

**Where is my DNA**

1. **Describe the relationship between the sequence of the mRNA molecule and the amino acid sequence of the resulting protein.**
2. **What is the relationship between DNA and RNA?**
3. **How are the processes of RNA transcription and DNA replication similar? How are they different?**
4. **Why is it important that the codons AUG and UDA be included in your RNA strand?**
5. **Based on your research of your current event. What was the topic? Why do you think that it’s important? What impications does it have for the future?**